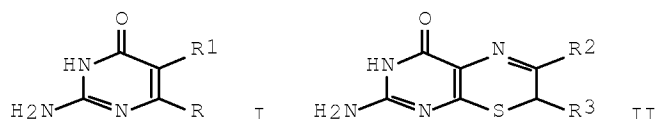


ORIGINAL REFERENCE NO.: 95:13683a,13686a
 TITLE: Folate analogs. 19. Construction of some
 6-substituted 7,8-dihydro-8-thiopterins
 AUTHOR(S): Nair, M. G.; Boyce, Loretta H.; Berry, Michael
 CORPORATE SOURCE: Coll. Med., Univ. South Alabama, Mobile, AL, 36688,
 USA
 SOURCE: Journal of Organic Chemistry (1981), 46(16), 3354-7
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 95:80884
 GI



AB Reaction of I (R = Cl, R1 = NO2) with Na2S gave I (R = SNa, R1 = NO2), which upon dithionite reduction gave I (R = SH, R1 = NH2), which on reaction with a variety of α -bromo ketones gave 7,8-dihydro-8-thiopterins II (R2 = Ph, 4-MeC6H4, 4-ClC6H4, MeOC6H4, phthalimidoalkyl; R3 = H, Me). II (R2 = Ph, R3 = Me) (III) was also prepared by reaction of I (R = SH, R1 = NO2) with PhCOCHMeBr and subsequent dithionite reduction. These conversions established the structure of III and related compds. as written.

IT 77903-11-8F

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of)

RN 77903-11-8 ZCAPLUS

CN 4(1H)-Pyrimidinone, 2-amino-6-[(1-methyl-2-oxo-2-phenylethyl)thio]-5-nitro-
 (CA INDEX NAME)

